

Product datasheet for **TP310709L**

Peroxiredoxin 5 (PRDX5) (NM_012094) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human peroxiredoxin 5 (PRDX5), nuclear gene encoding mitochondrial protein, transcript variant 1, 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC210709 protein sequence
Red=Cloning site **Green**=Tags(s)

MGLAGVCALRRSAGYILVGGAGGQSAAAAARRCSEGEWASGGVRSFSRAAAAMAPIKVGDAIPAVEVFEG
EPGNKVNLAELFKGKGVLFVPGAFTPGCSKTHLPGFVEQAEALKAKGVQVACLVDNDAFVTGEWGRA
HKAEGKVRLLADPTGAFGKETDLLLDDSLVSIFGNRRLKRFSMVVQDGIVKALNVEPDGTGLTCSLAPNI
ISQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 21.8 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_036226](#)

Locus ID: 25824



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UniProt ID: [P30044](#)

RefSeq Size: 913

Cytogenetics: 11q13.1

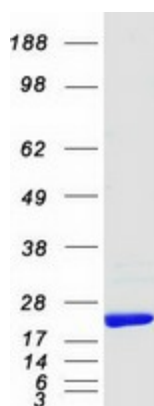
RefSeq ORF: 642

Synonyms: ACR1; AOEB166; B166; HEL-S-55; PLP; PMP20; PRDX6; prx-V; PRXV; SBB110

Summary: This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein interacts with peroxisome receptor 1 and plays an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. The use of alternate transcription start sites is thought to result in transcript variants that use different in-frame translational start codons to generate isoforms that are targeted to the mitochondrion (isoform L) or peroxisome/cytoplasm (isoform S). Multiple related pseudogenes have been defined for this gene. [provided by RefSeq, Nov 2017]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified PRDX5 protein (Cat# [TP310709]). The protein was produced from HEK293T cells transfected with PRDX5 cDNA clone (Cat# [RC210709]) using MegaTran 2.0 (Cat# [TT210002]).